

CURRICULUM VITAE SEYED M. KARIMI

CONTACT INFORMATION

Department of Health Management and Systems Sciences
School of Public Health and Information Sciences (SPHIS)
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CAREER BIO

Seyed M. Karimi's work sits at the intersection of microeconomics, statistics, and health policy. Health policy evaluation, modeling health care finance, environmental health, early-life shock analysis, welfare analysis, modeling infectious disease transmission, and burden of disease estimation are the areas of his research. He has taught courses on health services methodology, data management, economic evaluation in health care, health economics and policy, labor economics and policy, and introductory and intermediate microeconomics and macroeconomics. He is currently an assistant professor of health economics at the University of Louisville School of Public Health and Information Sciences (SPHIS). He also holds the health economist position at the Center for Health Equity (CHE) at the Louisville Metro Department of Public Health and Wellness (LMPHW), where he assists departmental leadership in defining policy priorities and programs. He also collaborates with the University of Washington's Institute for Health Metrics and Evaluations (IHME) in the Global Burden of Disease project. From April 2020, he has led a team of multidisciplinary researchers to project COVID-19 trends in the City of Louisville and the State of Kentucky regions (Webpage: <http://louisville.edu/sphis/research/covid-19-projections>).

EDUCATION

University of Illinois at Urbana-Champaign

Ph.D. in Economics (2014)

Institute for Research in Planning and Development, Tehran, Iran

M.S. in Industrial Engineering (2002)

Polytechnic of Tehran, Tehran, Iran

B.S. in Electrical Engineering (2000)

PROFESSIONAL EXPERIENCE AND EMPLOYMENT

University of Louisville School of Public Health and Information Sciences Department of Health Management and Systems Sciences	Assistant Professor	2019–present
Louisville Metro Dep. of Public Health & Wellness Center for Health Equity (CHE)	Health Economist	2019–present
Institute for Health Metrics and Evaluations University of Washington, Seattle	Collaborator	2016–present
University of Washington, Tacoma School of Interdisciplinary Arts and Sciences Department of Politics, Philosophy, and Public Affairs	Full-Time Lecturer	2014–2019
University of Illinois at Urbana-Champaign Department of Economics	Teaching Assistant Research Assistant	2007–2014
Central Bank of Iran Iran Banking Institute (IBI)	Full-Time Lecturer	2004–2007

Institute for Research in Planning and Development
Department of Economics

Research Fellow

2002–2004

PROFESSIONAL ASSOCIATIONS

- American Economic Association (AEA)
- American Society of Health Economists (ASHEcon)
- GBD Network of Collaborators, Institute for Health Metrics and Evaluations (IHME)
- Southern Economic Association (SEA)
- Economic Research Forum (ERF)
- Commonwealth Institute of Kentucky (CIK)
- International Iranian Economic Association (IIEA)

AWARDS

- Editor’s Choice Article American Journal of Human Biology, November/December 2021 ([link](#))
- Finalist of Outstanding Paper Economic Research Forum 23rd Annual Conference, Amman, Jordan, 2017
- Research Development Fund University of Washington Tacoma School of Interdisciplinary Arts and Sciences, Spring 2016
- Summer Research Award University of Illinois at Urbana-Champaign Department of Economics, 2012 and 2013
- Outstanding Academic Performance Institute for Research in Planning and Development Department of Economics, 2002

TEACHING AND MENTORING ACTIVITIES

Teaching

University of Louisville

- Health Services Research Methods I (Ph.D.) Spring 2020 (Co-Instructor), Spring 2021, Spring 2022 (Co-Instructor)
- Health Services Research Methods II (Ph.D.) Fall 2019 (Co-Instructor), Fall 2020, Fall 2021
- Statistical Data Management in SAS and Stata (Ph.D.) Fall 2020 (Co-Instructor), Spring 2021 (Co-Instructor), Fall 2021 (Co-Instructor), Spring 2022 (Co-Instructor)
- Economic Evaluation in Health Care (Ph.D.) Spring 2021 (Co-Instructor)
- Ph.D. Qualification Exam, Health Services Research Methods Methods Summer 2021 (Primary Instructor), Summer 2020 (Secondary Instructor)
- Ph.D. Qualification Exam, Microeconomic Theory Summer 2021 (Secondary Instructor)

University of Washington Tacoma

- Health Economics and Health Policy (B.A.) Autumn 2018 Spring 2018 Autumn 2017
Spring 2017 Autumn 2016 Winter 2016
Spring 2015 Winter 2015
- Labor Economics and Policy (B.A.) Winter 2019 Winter 2018 Winter 2017
Winter 2016 Spring 2016 Winter 2016
Spring 2015 Autumn 2014
- Introduction to Macroeconomics (B.A.) Spring 2019 Winter 2019
Autumn 2018 Spring 2018 Winter 2018

Autumn 2017	Spring 2017	Winter 2017	
Autumn 2016	Summer 2016	Spring 2016	Winter 2016
Autumn 2015	Summer 2015	Spring 2015	Winter 2015
Autumn 2014			

University of Illinois and Urbana-Champaign (Teaching Assistant / Head Teaching Assistant)

General Macroeconomic Theory (M.S.)	Spring 2014 Fall 2012	Fall 2013 Spring 2012	Spring 2013 Fall 2011
Principles of Macroeconomics (B.S.)	Spring 2011 Fall 2009	Fall 2010 Spring 2009	Spring 2010
Principles of Microeconomics (B.S.)	Fall 2008		

Iran Banking Institute (IBI), Central Bank of Iran

Economic Evaluation of Projects (B.A.)	Spring 2007 Fall 2005	Fall 2006 Spring 2005	Spring 2006 Fall 2004
Principles of Microeconomics (B.A.)	Spring 2007 Fall 2005	Fall 2006 Spring 2005	Spring 2006 Fall 2004

Institute of International Studies on Energy (IIES), Iran

One-Week Workshops on Economic Evaluation of Projects	Jun. 2005 Dec. 2003	Apr. 2005	Aug. 2004
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Advising

<u>Name</u>	<u>Period</u>	<u>Program</u>	<u>Served as</u>
Naiya Patel	2019-Present	University of Louisville Department of Health Management and Systems Sciences	PhD Committee Chair
Kelsey White	2019-2021	University of Louisville Department of Health Management and Systems Sciences	PhD Committee Member
Mehran Asadi	2019-Present	Iran University of Medical Sciences Department of Epidemiology	PhD Committee Member
Tammi Alvey Thomas	2020-2021	University of Louisville Kent School of Social Work	PhD Committee Member
Sara Choate	2020-Present	University of Louisville Department of Health Management and Systems Sciences	PhD Committee Member
Fatima Aldarweesh	2020-Present	University of Louisville Department of Health Management and Systems Sciences	PhD Committee Member
Sahal Alzahrani	2021-Present	University of Louisville Department of Health Management and Systems Sciences	PhD Committee Member
Sepideh Zende-Budi	2020-2021	Allameh Tabatabai University Department of Economics	MS Committee Member
Andrei Smolenkov	2021-Present	University of Louisville Department of Health Management and Systems Sciences	PhD Committee Member
Emmanuel Ezekekewu	2021-Present	University of Louisville	PhD Committee Member

		Department of Health Management and Systems Sciences	
Carmen Mitchell	2021-Present	University of Louisville Department of Health Management and Systems Sciences	PhD Committee Member
Reza Khatibi	2016-2020	Iran University of Medical Sciences Department of Epidemiology	PhD Committee Member
Mohammad Sarabian	2019-2020	Sharif University of Technology Department of Economics	MS Committee Member

Mentoring

<u>Name</u>	<u>Period</u>	<u>Program</u>	<u>Served as</u>
J. Daniel McGeeny	2021-Present	University of Louisville School of Public Health and Information Sciences MPH Program	Site Mentor at the Louisville Metro Department of Public Health and Wellness
Adegboyega Akenroye	2020-2021	University of Louisville School of Public Health and Information Sciences MPH Program	Site Mentor at the Louisville Metro Department of Public Health and Wellness
Lamyaa Alharbi	2020-2021	University of Louisville School of Public Health and Information Sciences MPH Program	Site Mentor at the Louisville Metro Department of Public Health and Wellness
Mariyam Alluhibi	2020-2021	University of Louisville School of Public Health and Information Sciences MPH Program	Site Mentor at the Louisville Metro Department of Public Health and Wellness
Shorog Alshamrani	2020-2021	University of Louisville School of Public Health and Information Sciences MPH Program	Site Mentor at the Louisville Metro Department of Public Health and Wellness
Nawal Yaqoub	2020-2021	University of Louisville School of Public Health and Information Sciences MPH Program	Site Mentor at the Louisville Metro Department of Public Health and Wellness

RESEARCH ACTIVITIES

Grants and Contracts Funded

<u>Title</u>	<u>Role</u>	<u>Sponsor</u>	<u>Dates</u>	<u>Total</u>
Evaluating the Economic Impact of Current Policies and Proposed Policy Implementation on the Public Health System and Economy; Modeling Plans and Economic Framing of Public Health Programs; Contributing to LMPHW Root Cause Team Activities, Skillset Lab Activities, Health Impact Assessment Projects, Budget Analysis, Health Equity Report Development	Principal Investigator (50% FTE)	(Peer-Reviewed Competitive) Louisville/Jefferson County Metro Government	08/2019-07/2024	\$250,000
The Effect of Market Changes in KY Medicaid: Utilization and Cost Savings for Three Chronic Diseases - Cardiovascular Disease, Cancer, And Type 2 Diabetes	Principal Investigator (35% FTE)	Peer-Reviewed Federally Funded Competitive through the State of Kentucky's Cabinet for Health and Family Services	07/2020-06/2022	\$578,992

Study on Systemic Complications of Oral Diseases among Medicaid Beneficiaries with Type 2 Diabetes in Kentucky (PI: Giang Vu; Approximately 5% Expenditure in Time)	Co-Investigator (0% FTE - Cost Share)	Peer-Reviewed Federally Funded Competitive through the State of Kentucky's Cabinet for Health and Family Services	07/2020-06/2022	\$456,698
Predictive Analytics for Type 2 Diabetes with Social Determinants of Health in Medicaid Beneficiaries (PI: Bert Little; Approximately 10% Expenditure in Time)	Co-Investigator (0% FTE - Cost Share)	Peer-Reviewed Federally Funded Competitive through the State of Kentucky's Cabinet for Health and Family Services	07/2020-06/2022	\$860,382

Grants and Contracts Previously Funded

<u>Title</u>	<u>Role</u>	<u>Sponsor</u>	<u>Dates</u>	<u>Total</u>
Analyzing COVID-19 and Projecting COVID-19 Hospitalizations and Deaths for City of Louisville/Jefferson County, Kentucky	Principal Investigator (1% FTE)	Federal Source (American Rescue Fund) through City of Louisville, Metro Department of Public Health & Wellness	10/2021-12/2021	\$54,859
Surveys of Mask Use in Jefferson County, Kentucky	Principal Investigator (1% FTE)	Federal Source (CARES Act) through City of Louisville, Metro Department of Public Health & Wellness	11/2020-02/2021	\$28,000
Louisville Metro Emergency Services Deflection Planning (PI: Susan Buchino)	Co-Investigator (10% FTE)	Louisville/Jefferson County Metro Government	02/2021-06/2021	\$231,056

Grants and Contracts Previously Submitted, Not Funded

<u>Title</u>	<u>Role</u>	<u>Sponsor</u>	<u>Dates</u>	<u>Total</u>
Personalized Medicine Algorithms and Patient Navigators for Medicaid/Medicare Beneficiaries with Type 2 Diabetes (PI: Bert Little, KB Kulasekera, Bob Esterhay)	Co-Investigator	Agency for Health Research and Quality	--	--

SERVICE ACTIVITIES

University of Louisville

Projecting COVID-19 Hospitalizations and Deaths for Regions of the Kentucky Regional Hospital Preparedness Program (HPP) Coalition	Jun. 2020–Present
UofL-IBM Leadership & Implementation Team	Nov. 2019–Aug. 2021
UofL-Humana Initiative	Jan. 2020–Present
UofL-Passport Healthy Connections Lab	Dec. 2019–Present

University of Washington Tacoma

Search Committee, Assistant Professor in Statistics	Sep. 2018–April 2019
Editor of the <i>253 Economics</i> , a blog for UW Tacoma students' comments on contemporary economics issues. https://blogs.uw.edu/econ253/	Oct. 2017–June 2018

Debater, <i>State Minimum Wage: Ballot I-1433</i> , League of Women Voters Tacoma/Pierce County https://www.youtube.com/watch?v=mHnhVxjQ-IA	Oct. 12, 2016
Curriculum Committee, Proposal for a BA degree in Economic Policy	2015–2018
Curriculum Committee of the Economics track of the Philosophy, Politics, and Public Affairs degree	2014–2019
Organization Group, Quantitative Refresher Workshop	2015–2019
Organization Group, Microeconomics Refresher Workshop	2015–2019
Search Committee, Lecturer in Gender Political Economy	2015–2016
Search Committee, Assistant Professor in Urban Economics	2014–2015

Editorial Activities

GUEST EDITOR, <i>Atmosphere</i> Special Issue “Human Health, Climate Change, and Ambient Air Pollution” https://www.mdpi.com/journal/atmosphere/special_issues/Pollution_Climate_Health	2020–Present
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REVIEWER	2012–Present
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- 2021:
 - Journal of American Dental Association
 - Value in Health
 - American Journal of Public Health
 - American Journal of Human Biology
 - Atmosphere
 - Journal of Health Care for the Poor and Underserved
 - University of Louisville Journal of Respiratory Infections
- 2020:
 - PLOS ONE
 - Journal of Occupational and Environmental Health
 - Journal of Epidemiology and Public Health Reviews
 - Cancer Medicine
 - Behavioral Medicine
 - CDC’s Preventing Chronic Disease (PCD)
 - International Journal of Health Policy & Management
 - Quarterly Review of Economics and Finance
- 2019
 - International Journal of Health Policy & Management
 - Quarterly Review of Economics and Finance
 - Middle East Development Journal
- 2012–2018
 - Food and Nutrition Sciences
 - Economics and Human Biology
 - Energy Journal
 - Middle East Development Journal
 - International Journal of Business and Globalisation

CONFERENCE SCIENTIFIC COMMITTEE 5 th IIEA Conference on Iranian Economy, International Institute of Social History, Amsterdam, The Netherlands	2018
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CONFERENCE ORGANIZATION COMMITTEE Conference on Iranian Economy, Department of Economics, University of Chicago	2009
Conference on Iranian Economy, Department of Economics University of Illinois at Urbana-Champaign	2007

CONFERENCE SCIENTIFIC EDITOR

Iran Banking Institute 17 th Annual Economic Conference	2007
Iran Banking Institute 16 th Annual Economic Conference	2006
Iran Banking Institute 15 th Annual Economic Conference	2005

PUBLICATIONS

Peer-Reviewed Journals

COVID-19

1. **Karimi SM**, Salunkhe SS, White KB, Little BB, McKinney WP, Mitra R, Chen YT, Adkins ER, Barclay JA, Ezekekwa E, He CX, Hurst DM, Popescu MM, Swinney DN, Johnson DA, Hollenbach R, Moyer SS, DuPré NC. "[Prevalence of Unmasked and Improperly Masked Behavior in Indoor Public Areas during the COVID-19 Pandemic: Analysis of a Stratified Random Sample from Louisville, Kentucky.](#)" *PLoS ONE*. Available online from 28 July 2021. DOI: 10.1371/journal.pone.0248324
2. DuPre NC, **Karimi SM**, Little BB, McKinney WP, Zhang C, Blair L, Gupta A, Mitra R. "[County-Level Demographic, Socioeconomic, School Enrollment and Lifestyle Correlates of COVID-19 Infection and Death Trajectories during the First Wave of the Pandemic in United States Counties.](#)" *Science of the Total Environment*. Available online from 3 May 2021. DOI: 10.1016/j.scitotenv.2021.147495
3. **Karimi SM**, Majbouri M, DuPre NC, White K, Little BB, McKinney WP. "[Weather and COVID-19 Deaths during the Stay-at-Home Order in the U.S.](#)" *Journal of Occupational and Environmental Medicine*. Available online from 3 February 2021. DOI: 10.1097/JOM.0000000000002160
4. **Karimi SM**, Salunkhe SS, White K, Alzahrani SA, Little BB, Chen YT, McKinney WP, DuPre NC, Mitra R, Popescu MM, Adkins ER, Barclay JA, Ezekekwa E, He CX, Hurst DM, Kothagadi AR, Shakib SH, Swinney DN, Johnson DA, Hollenbach R, Moyer S. "[Facial Mask Use and COVID-19 Protection Measures in Jefferson County, Kentucky: Results from an Observational Survey, November 5–11, 2020.](#)" *UL Journal of Respiratory Infections*. 2021;5(1): 7. DOI: 10.18297/jri/vol5/iss1/7
5. **Karimi SM**, DuPre NC, McKinney WP, Little B, Patel N, Moyer S. "[Projecting the Covid-19 Weekly Deaths and Hospitalizations for Jefferson County, Kentucky.](#)" *UL Journal of Respiratory Infections*. 2020;4(1): 44. DOI: 10.18297/jri/vol4/iss1/44

Applied Economics & Health Sciences

6. White K, Jennings JC, **Karimi SM**, Johnson CE, Fitchett G. "[Examining Factors Associated with Utilization of Chaplains in the Acute Care Setting.](#)" *Journal of Religion and Health*. Available online from 19 November 2021. DOI: 10.1007/s10943-021-01460-x.
7. **Karimi SM**, Eslami K, Johnson CE. "[U.S. Health Care Expenditure Across Income Groups by Age and Type of Care.](#)" *Journal of Health Care for the Poor and Underserved*. 2021; 32(2): 958–970. *Project MUSE* muse.jhu.edu/article/794617.
8. Asadi-Aliabadi M, Tehrani-Banihashemi A, Mirbaha-Hashemi F, Janani L, Babae E, **Karimi SM**, Nojomi M, Moradi-Lakeh M. "[Evaluating the Impact of a Non-Physician Health Care Provider Results-Based Motivating System on Population Level of the Non-Communicable Diseases Risk Factors in Iran: Study Protocol for a Field Trial.](#)" *Medical Journal of the IR Iran*. 2021; 35(1): 515–522. DOI: 10.47176/mjiri.35.66.
9. Khatibi R, **Karimi SM**, Moradi-Lakeh M. "[Fossil Energy Price and Outdoor Air Pollution: Predictions from a QUAIDS Model.](#)" *Biofuel Research Journal*. 2020;7(3): 1205–1216.
10. **Karimi SM**, Little B, Mokhtari M. "[Short-term Fetal Nutritional Stress and Long-term Health: Child Height.](#)" *American Journal of Human Biology*. Available online 06 November 2020.
11. **Karimi SM**, Taghvatalab G. "[Access to Higher Education and the Likelihood of Being Married.](#)" *Quarterly Review of Economics and Finance*. Available online 18 May 2020.
12. **Karimi SM**, Pouran H, Majbouri M, Moradi-Lakeh M, Hakimian H, Basart S, "[Saharan Sand and Dust Storms and Neonatal Mortality: Evidence from Burkina Faso.](#)" *Science of the Total Environment*. 2020;729(August): 139053. Available online 29 April 2020.
13. **Karimi SM**, Maziayaki A, Ahmadian Moghadam S, Jafarkhani M, Zarei H, Moradi-Lakeh M, Pouran H. "[Continuous Exposure to Ambient Air Pollution and Chronic Diseases: Prevalence, Burden, and Economic Costs.](#)" *Reviews on Environmental Health*. Available online 22 April 2020.

14. **Karimi SM**, Basu A. "[The Effect of Prenatal Exposure to Ramadan on Children's Height.](#)" *Economics and Human Biology*. 2018; 30(September): 69-83.
15. Abbasi H, **Karimi SM**. "[Child Gender and Men's Labor Market Outcomes: the Case of a Dotal Society.](#)" *Review of Middle East Economics and Finance*. 2017; 13(1): 1-19.
16. Gahvari F, **Karimi SM**. "[Export Constraint and Domestic Fiscal Reform: Lessons from 2010 Subsidy Reform Iran.](#)" *Quarterly Review of Economics and Finance*. 2016; 60(May): 40-57.

Burden of Disease Estimation

17. GBD 2019 UHC Collaborators. "[Measuring UHC Effective Coverage Index in 204 Countries and Territories, 1990-2019: A Systematic Analysis from the Global Burden of Disease Study 2019.](#)" *The Lancet*. 2020; 396(10258): 1250-1284.
18. GBD 2017 SDG Collaborators. "[Measuring Progress from 1990 to 2017 and Projecting Attainment to 2030 of the Health-Related Sustainable Development Goals for 195 Countries and Territories: a Systematic Analysis for the Global Burden of Disease Study 2017.](#)" *The Lancet*. 2018; 392(10159): 2091-2138.
19. GBD 2017 Population and Fertility Collaborators. "[Population and Fertility by Age and Sex for 195 Countries and Territories, 1950-2017: a Systematic Analysis for the Global Burden of Disease Study 2017.](#)" *The Lancet*. 2018; 392(10159): 1995-2051.
20. GBD 2017 Mortality Collaborators. "[Population and Fertility by Age and Sex for 195 Countries and Territories, 1950-2017: a Systematic Analysis for the Global Burden of Disease Study 2017.](#)" *The Lancet*. 2018; 392(10159): 1684-1735.
21. GBD 2016 Healthcare Access and Quality Collaborators. "[Measuring Performance on the Healthcare Access and Quality Index for 195 Countries and Territories and Selected Subnational Locations: a Systematic Analysis from the Global Burden of Disease Study 2016.](#)" *The Lancet*. 2018; 391(10136): 2236-2271.
22. GBD 2015 Eastern Mediterranean Region Neonatal, Infant, and under-5 Mortality Collaborators. "[Adolescent Health in the Eastern Mediterranean Region.](#)" *International Journal of Public Health*. 2017; 63(S1): 79-96.
23. GBD 2015 Eastern Mediterranean Region Neonatal, Infant, and under-5 Mortality Collaborators. "[Neonatal, Infant, and Under-5 Mortality and Morbidity Burden in the Eastern Mediterranean Region.](#)" *International Journal of Public Health*. 2017; 63(S1): 63-77.
24. GBD 2016 Mortality Collaborators. "[Global, Regional, and National Under-5 Mortality, Adult Mortality, Age-Specific Mortality, and Life Expectancy, 1970-2016.](#)" *The Lancet*. 2017; 390(10100): 1084-1150.
25. GBD 2016 DALYs and HALE Collaborators. "[Global, Regional, and National Disability-Adjusted Life-Years \(DALYs\) for 333 Diseases and Injuries and Healthy Life Expectancy \(HALE\) for 195 Countries and Territories, 1990-2016.](#)" *The Lancet*. 2017; 390(10100): 1260-1344.
26. GBD 2016 Causes of Death Collaborators. "[Global, Regional, and National Age-Sex Specific Mortality for 264 Causes of Death, 1980-2016.](#)" *The Lancet*. 2017; 390(10100): 1151-1210.
27. GBD 2016 Healthcare Access and Quality Collaborators. "[Healthcare Access and Quality Index Based on Mortality from Causes Amenable to Personal Healthcare in 195 Countries and Territories, 1990-2015.](#)" *The Lancet*. 2017; 390(10091): 231-266.
28. GBD 2016 Health Financing Collaborators. "[Future and Potential Spending on Health 2015-2040: Government, Private, and Donor Financing for 184 Countries.](#)" *The Lancet*. 2017; 389(10083): 2005-2030.
29. GBD 2016 Health Financing Collaborators. "[The Evolution and Patterns of Global Health Financing 1995-2014: Development Assistance for Health, and Government, Prepaid Private, and Out-of-Pocket Health Spending in 184 Countries.](#)" *The Lancet*. 2017; 389(10083): 1981-2004.
30. Karimkhani C, Dellavalle RP, **Karimi SM**. "[Burden of Skin and Subcutaneous Diseases in Iran and Neighboring Countries, 1990-2015.](#)" *Archives of Iranian Medicine*. 2017; 20(7): 429-440.
31. Moradi-Lakeh M, Sepanlou SG, **Karimi SM**. *et al.* "[The Trend of Socio-Demographic Index and Mortality Estimates in Iran and Its Neighbors, 1990-2015.](#)" *Archives of Iranian Medicine*. 2017; 20(7): 419-428.
32. Sepanlou SG, Parsaiean M., Krohn J, ... , **Karimi SM**. *et al.* "[Disability-Adjusted Life-Years \(DALY\) for 315 Diseases and Injuries, and Healthy Life Expectancy \(HALE\) in Iran and Its Neighboring Countries, 1990-2015.](#)" *Archives of Iranian Medicine*. 2017; 20(7): 403-418.

33. Djalalinia S, Moghaddam S, Moradi-Lakeh M, ... , **Karimi SM.** *et al.* "[Prevalence and Years Lived with Disability of 310 Diseases and Injuries in Iran and Its Neighboring Countries, 1990–2015.](#)" *Archives of Iranian Medicine.* 2017; 20(7): 392–402.

Submissions

1. GBD 2019 Collaborators. "Global, regional, and national levels of neonatal, infant, and under-5 all-cause and cause-specific mortality, 1990–2019: findings from the Global Burden of Disease Study 2019." Revised & Resubmitted to *The Lancet*.
2. GBD 2017 Collaborators. "Estimates, Trends, and Drivers of the Global Burden of Type 2 Diabetes Mellitus Attributable to Particulate Matter Air Pollution: An Analysis of Data from the Global Burden of Disease Study 2017." Revised & Resubmitted to *The Lancet Planetary Health*.
3. Pouran H, **Karimi SM**, Sheng Y, Gyoh L, Arif M. "What China's War on Pollution Means for PV Solar, Electric Vehicles and Carbon Capture and Storage Technologies." Under Review.
4. Asadi-Aliabadi M, **Karimi SM**, Tehrani-Banihashemi A, Mirbaha-Hashemi F, Janani L, Babae E, Nojomi M, Moradi-Lakeh M, "Effectiveness of Pay for Performance to Non-Physician Health Care Providers: a Systematic Review Corresponding." Revise & Resubmit Requested from *Health Policy*.
5. Asadi-Aliabadi M, **Karimi SM**, Tehrani-Banihashemi A, Mirbaha-Hashemi F, Janani L, Babae E, Nojomi M, Moradi-Lakeh M, "Effect of a community-based intervention on behavioral risk factors of noncommunicable diseases: a report from IRPONT trial." Under Review.
6. Asadi-Aliabadi M, **Karimi SM**, Tehrani-Banihashemi A, Mirbaha-Hashemi F, Janani L, Babae E, Nojomi M, Moradi-Lakeh M, "Managing non-communicable diseases metabolic risk factors in the community: results from the IRPONT trial." Under Review.

Technical Reports

Modeling and Projecting COVID-19 Trends

1. **Karimi SM**, Zarei H, McGeeney D, Patel N, Gunaratnam B, Vu G, Little BB, McKinney WP, DuPre NC, Mitra R, Khan SM, Oeth C, Chen YT, Hollenbach R, Moyer S. "[Projecting COVID-19 Hospitalizations in Jefferson County, KY, Based upon the Uptake of Vaccination in 5-11 Year Olds.](#)" Technical Report for Center for Health Equity, Louisville Metro Department of Public Health and Wellness (LMPHW), pp. 62. December 7, 2021.
2. **Karimi SM**, Zarei H, Chen YT, LaZur R, McKinney WP, Little BB, DuPre NC, Mitra R, Patel N, Hollenbach R, Moyer S, Schutze MH. "[Projecting COVID-19 Hospitalizations and Deaths under Scenarios of Vaccination in Jefferson County, Kentucky.](#)" Technical Report for Center for Health Equity, Louisville Metro Department of Public Health and Wellness (LMPHW), pp. 30. March 6, 2021.
3. **Karimi SM**, Zarei H, LaZur R, DuPre NC, McKinney WP, Patel N, Little BB, Mitra R, Moyer S, Schutze MH. "[Projecting COVID-19 Hospitalizations for Regions 2, 3, and 4 of the Kentucky Regional Hospital Preparedness Program \(HPP\) Coalition during the Implementation of the State's 'Targeted Measures'.](#)" Technical Report for the Office of Health Data and Analytics, Cabinet for Health and Family Services (CHFS), pp. 23. November 30, 2020.
4. **Karimi SM**, Zarei H, LaZur R, DuPre NC, McKinney WP, Patel N, Little BB, Mitra R, Moyer S, Schutze MH. "[Projecting COVID-19 Hospitalizations and Deaths for Region 3 of the Kentucky Regional Hospital Preparedness Program \(HPP\) Coalition \(Jefferson County and 14 Surrounding Counties\) during the Implementation of the State's 'Targeted Measures'.](#)" Technical Report for the Office of Health Data and Analytics, Cabinet for Health and Family Services (CHFS), and for Center for Health Equity, Louisville Metro Department of Public Health and Wellness (LMPHW), pp. 22. November 24, 2020.
5. **Karimi SM**, Zarei H, DuPre NC, Salunkhe SS, Patel N, Mitra R, McKinney WP, Little BB, Moyer S. "[Projecting COVID-19 Deaths and Hospitalizations for Region 4 of the Kentucky Regional Hospital Preparedness Program \(HPP\) Coalition from August 18 to October 17, 2020.](#)" Technical Report for the Office of Health Data and Analytics, Cabinet for Health and Family Services (CHFS), pp. 26. August 24, 2020.
6. **Karimi SM**, Zarei H, DuPre NC, Chen YT, Patel N, Mitra R, McKinney WP, Little BB, Ul Hassan R, Moyer S. "[Projecting COVID-19 Deaths and Hospitalizations for Jefferson County, KY from July 16 to September 15, 2020.](#)" Technical Report for the Center for Health Equity, Louisville Metro Department of Public Health and Wellness (LMPHW), pp. 25. July 31, 2020.
7. **Karimi SM**, DuPre NC, McKinney WP, Little B, Patel N, Moyer S. "[Projecting the COVID-19 Weekly Hospitalizations and Deaths for Jefferson County, Kentucky.](#)" Technical Report for the Center for Health Equity, Louisville Metro Department of Public Health and Wellness (LMPHW), pp. 25. May 13, 2020.

8. **Karimi SM**, DuPre NC, McKinney WP, Little B, Patel N, Moyer S. “[Projecting the COVID-19 Weekly Deaths, Infections, and Hospitalizations for Jefferson County, Kentucky.](#)” Technical Report for the Center for Health Equity, Louisville Metro Department of Public Health and Wellness (LMPHW), pp. 22. April 20, 2020.

Surveys of Mask Use

9. **Karimi SM**, Salunkhe SS, White K, Shakib SH, Chen YT, McKinney WP, Little BB, DuPre NC, Mitra R, Adkins ER, Barclay JA, Ezekekwa E, Hurst DM, Kothagadi AR, Popescu MM, Swinney DN, Johnson DA, Hollenbach R, Moyer S. “[Results of the Third Observational Surveys of Mask Use in Indoor Public Areas in Jefferson County, KY, January 25–31, 2021.](#)” February 3, 2021.
10. **Karimi SM**, Salunkhe SS, White K, Chen YT, McKinney WP, Little BB, DuPre NC, Mitra R, Adkins ER, Barclay JA, Ezekekwa E, Hurst DM, Popescu MM, Swinney DN, Johnson DA, Hollenbach R, Moyer S. “[Results of the Second Observational Surveys of Mask Use in Indoor Public Areas in Jefferson County, KY: December 14–20, 2020.](#)” December 22, 2020.
11. **Karimi SM**, Salunkhe SS, White K, Alzahrani SA, Chen YT, McKinney WP, Little BB, DuPre NC, Mitra R, Adkins ER, Barclay JA, Ezekekwa E, He CX, Hurst DM, Kothagadi AR, Popescu MM, Shakib SH, Swinney DN, Johnson DA, Hollenbach R, Moyer S. “[Results of the First Observational Surveys of Mask Use in Indoor Public Areas in Jefferson County, KY during November 5–11, 2020.](#)” November 17, 2020.

Miscellaneous

12. DuPré NC, **Karimi SK**, McKinney WP, Mitra R, Vu G, Shakib S, Little BB. “[A Review of the Article by Guerra and Guerra \(2021\) titled ‘Mask mandate and use efficacy for COVID-19 containment in U.S. States’ and published by International Research Journal of Public Health \(DOI: 10.28933/irjph-2021-08-1005\).](#)” September 15, 2021.

Non-Peer-Reviewed

1. **Karimi SM**, Salunkhe SS, White KB, Little BB, McKinney WP, Mitra R, Chen YT, Adkins ER, Barclay JA, Ezekekwa E, He CX, Hurst DM, Popescu MM, Swinney DN, Johnson DA, Hollenbach R, Moyer SS, DuPré NC. “[Stratified Random Sampling Methodology for Observing Community Mask Use within Indoor Settings: Results from Louisville, Kentucky during the COVID-19 Pandemic.](#)” February 25, 2021. DOI: <https://doi.org/10.1101/2021.02.25.432837>
2. Ali Meerza SI, **Karimi SM**, Little BB, Zurada JM, Inanc T. “[Optimal Scheduling of Anticipated COVID-19 Vaccination: A Case Study of New York State.](#)” August 24, 2020. DOI: <https://arxiv.org/abs/2008.10702>
3. **Karimi SM**, Majbouri M, DuPre NC, White K, Little BB, McKinney WP. “[Spring Weather and COVID-19 Deaths in the U.S.](#)” medRxiv June 22, 2020. DOI: [10.1101/2020.06.20.20136259](https://doi.org/10.1101/2020.06.20.20136259)
4. **Karimi SM**. “[Prenatal Exposure to Ramadan and the Length of Gestation.](#)” Working Paper 1236, *Economic Research Forum*, March 2017.
5. Esfahani H, **Karimi SM**. “[Social Protection and Gender in Iran: Assessing the Differential Impact of Social Protection Activities on Female-Headed versus Male-Headed Households.](#)” Working Paper 891, *Economic Research Forum*, March 2015.
6. Esfahani H, **Karimi SM**. “[Distributional Effects of Public Spending and Programs in Iran.](#)” Working Paper 891, *Economic Research Forum*, December 2014.

In Preparation (Draft Available)

1. Haidar JI, **Karimi SM**. “International Financial Sanctions and Household Welfare.” February 2020.
2. Eslami K, **Karimi SM**. “Health: Luxury or Necessity? Medical Spending, Health Capital, and the Production of Health in the US.” November 2018.
3. **Karimi SM**, Eslami K. “Health Capital and the Productivity of Health Spending: Evidence from the RAND Health Insurance Experiment.” October 2018.
4. Eslami K, **Karimi SM**. “Search and Search Costs in Individual Health Insurance Markets.”

In Preparation

1. Little BB, **Karimi SM**. “Mobility and COVID-19 Cases and Deaths at the Border of Kentucky and Indiana.”
2. Little BB, Pena-Reyes ME, **Karimi SM**, Vu GT, Dupré NC, McKinney WP, Mitra R. “Covid-19 Infection and Admission to ICU, Ventilator Use and Mortality among Non-Pregnant Indigenous Non-Indigenous Adults in Mexico: 2020-2021”

3. Asadi G, **Karimi SM**, Majbouri M, Mostafavi-Dehzoeei MH, “Long-Term Health and Labor Market Effects of Exposure to Saharan Sand and Dust Storms in Cameroon and Benin.”
4. **Karimi SM**, Little B, Malina R, Peña ME. “Conditional Cash Transfer Programs and Mexican Indigenous Children’s Anthropometrics.”
5. Eslami K, **Karimi SM**, “A Life-Cycle General Equilibrium Model of the US Long-Term Care Insurance Market.”
6. Eslami K, **Karimi SM**, “A Model for Search in the US Individual Health Insurance Market.”
7. Taghvatalab S, Taghvatalab G, **Karimi SM**. “Increased Access to Higher Education and Fertility Rate.”
8. **Karimi SM**, Mazyaki A, Zare H. “The Effect of Exposure to Middle East Desert Storms on Birth Outcomes: A Population-Based Study.”
9. **Karimi SM**, Khosravi A., Najafi F. “The Effects of Exposure to Earthquake on Population Health: A Population Level Study.”

PRESENTATIONS

Peer-Reviewed

2021

“[County and Regional Projections of COVID-19 Trends in Kentucky.](#)” 73rd Annual Kentucky Public Health Association Educational Conference. Apr. 21–22.

“[Observing Mask Use in the Jefferson County, KY: Results from Stratified Random Sampling Studies.](#)” 73rd Annual Kentucky Public Health Association Educational Conference. Apr. 21–22.

2020

“[Sanctions and Household Welfare: Evidence from Iran.](#)” Southern Economic Association Annual Conference, New Orleans, LA, Nov. 22.

“[Energy Price Change and Emission of Air Pollutants: Implication from a QUAIDS Model.](#)” Southern Economic Association Annual Conference, New Orleans, LA, Nov. 22.

“Louisville Metro Syringe Exchange Program (LMSEP): Disparities in Participation Five Years after Its Implementation.” NACCHO Annual Conference, Denver, CO, July 8.

“The Role of Computerized Documentation in Monitoring the Implementation of Public Health Programs: Evidence from the LMSEP.” NACCHO Annual Conference, Denver, CO, July 8.

“Louisville Metro Syringe Exchange Program (LMSEP): Importance of Implementation Details.” NACCHO Annual Conference, Denver, CO, July 8.

“Sociodemographic Gradients of Lead Level in Children’s Blood in Jefferson County, KY.” NACCHO Annual Conference, Denver, CO, July 8.

2019

“[The Long-Term Anthropometric Effect of Short-Term Prenatal Nutritional Stress.](#)” 6th IIEA Conference, University of Naples “L’Orientale”, Naples, Italy, May 16.

2018

“[The Effect of Prenatal and Neonatal Exposure to the Saharan Sand and Dust Storms on Neonatal Mortality: Evidence from Burkina Faso.](#)” 2018 Pacific North West Labor Day Workshop, University of Washington, Seattle, WA, Sep. 29.

“[Access to Higher Education and Marriage: Evidence from the Expansion of Higher Education System in Iran during the 2000s.](#)” 5th IIEA Conference, International Institute of Social History, Amsterdam, Netherlands, Mar. 9.

2017

“Introduction of a University: What Changes in the Local Economy?” The 4th Annual Politics, Philosophy, and Public Affairs Colloquium, University of Washington Tacoma, Portland, OR, April 29.

“Prenatal Exposure to Ramadan, Height, and the Length of Gestation,” ERF 23rd Annual Conference, Amman, Jordan, March 18.

2016

“Introduction of a University to a Small City: Effects on the Local Economy,” Western Economic Association International 91st Annual Conference, Portland, OR, July 2.

2014

“[Export Constraint and Domestic Fiscal Reform: Lessons from 2010 Subsidy Reform in Iran](#),” The 3rd IIEA Conference, Boston College, Boston, MA, October 25.

“[Child Gender and Men’s Labor Market Outcomes: the Case of a Dotal Society](#),” The 3rd IIEA Conference, Boston College, Boston, MA, October 25.

“The Effect of Exposure to Ramadan in Utero on Children’s Height: Ramadan as a Natural Experiment,” Fourth Conference on Long-Run Impacts of Early Life Events at the University of Michigan, Ann Harbor, MI, March 21

Non-Peer-Reviewed

2021

“Projection of COVID-19 Trends for Jefferson County and Kentucky Regions.” University of Louisville School of Public Health and Information Sciences, Community Advisory Board, Apr. 30.

“Observing Mask Use in the Jefferson County, KY: Results from Stratified Random Sampling Studies.” University of Windsor (Canada) Seminar Series, Mar. 26.

2019

“Health Capital and the Productivity of Health Spending: Evidence from the RAND Health Insurance Experiment,” College of Business, University of Louisville, Louisville, KY, Sep. 27.

“Health Capital and the Productivity of Health Spending: Evidence from the RAND Health Insurance Experiment,” Hudson School of Public Health, University of Oklahoma, Oklahoma City, OK, Jan. 30.

“Health Capital and the Productivity of Health Spending: Evidence from the RAND Health Insurance Experiment,” School of Public Health and Information Sciences, University of Louisville, Louisville, KY, Jan. 28.

“Health Capital and the Productivity of Health Spending: Evidence from the RAND Health Insurance Experiment,” School of Business, University of North Carolina Pembroke, Pembroke, NC, Jan. 22.

2018

“Prenatal and Neonatal Exposure to the Saharan Sand and Dust Storms and Neonatal Mortality: Evidence from Burkina Faso,” Autumn 2018 Labor/Development Brownbag Seminar, Department of Economics, University of Washington, Seattle, WA, Nov. 8.

“Prenatal Exposure to Sand and Dust Storms and Neonatal Mortality: Evidence from Burkina Faso,” Iran University of Medical Sciences, Tehran, Iran, Jan. 4.

“Access to Higher Education and Marriage: Evidence from the Expansion of Higher Education System in Iran during the 2000s,” Institute for Research & Planning in Higher Education, Tehran, Iran, Jan. 2

2017

“Pre-Birth Exposure to Ramadan, Height, and the Length of Gestation,” The World Bank MENA Chief Economist Seminar Series, Washington, DC, June 14.

“[Pre-Birth Exposure to Ramadan, Height, and the Length of Gestation](#),” University of Washington PHEnOM Health Economics Seminar, Seattle, WA, May 11.

2016

“The Pros and Cons of Private and Single-Payer Healthcare Systems: the U.S. versus Canada,” Seminars in Interdisciplinary Arts and Sciences: Activism and Social Change, University of Washington Tacoma, Tacoma, WA, November 8.

“Prenatal Exposure to Ramadan, Height, and the Length of Gestation,” Third Annual Politics, Philosophy, and Public Affairs Colloquium, University of Washington Tacoma, Port Townsend, WA, May 7.

2014

“The Effect of Exposure to Ramadan in Utero on Children’s Height: Ramadan as a Natural Experiment,” Lancaster University, Lancaster, UK, March 7.

SEYED M. KARIMI

2013

“Prenatal Exposure to Ramadan and Height and Weight Deficiency in Children,” University of Illinois and Urbana-Champaign, Urbana, Illinois, November 4.

2010

“Universal Health Insurance and Access to Medical Care: Evidence from 2005 Program in Iran,” University of Illinois and Urbana-Champaign, Urbana, Illinois, June 15.